



MOVING YOU FURTHER

**50·70D-9**



Some of the photos may include optional equipment.

**HYUNDAI**  
MATERIAL HANDLING

# Your satisfaction is our priority!

## Proven performance! The best design! Hyundai 9 Series Diesel Mid-size Forklift

Hyundai introduces a new line of 9 series diesel forklift.

The newly designed models provide every operator comfortable driving,  
increased productivity and easy maintenance.

### Performance

- Tier 4, 102PS Cummins QSF3.8 engine
- Fully automatic ZF electronic transmission with 3 forward-reverse shifts
- Wet disc brake and large DIC axle of planetary gear final reduction

### Ensured safety at the logistics site

- Auto parking brake
- Operator presence sensing system (OPSS)

### Comfortable and safe driving

- FATC (Full Automatic Temperature Control) (OPT)
- Hydraulic pilot valve lever
- Load weight indicator (OPT)

### Convenient management

- One-touch electric motor-driven tilting cabin
- Notification of replacement of the consumable items
- Engine fault diagnosis

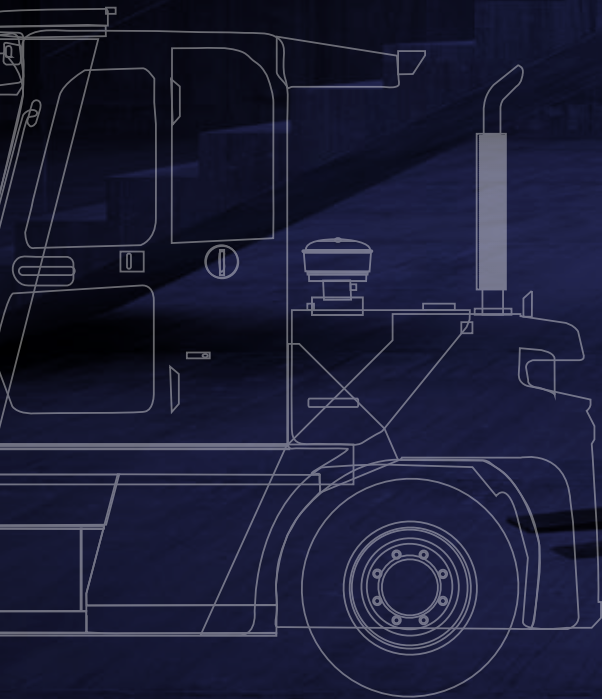




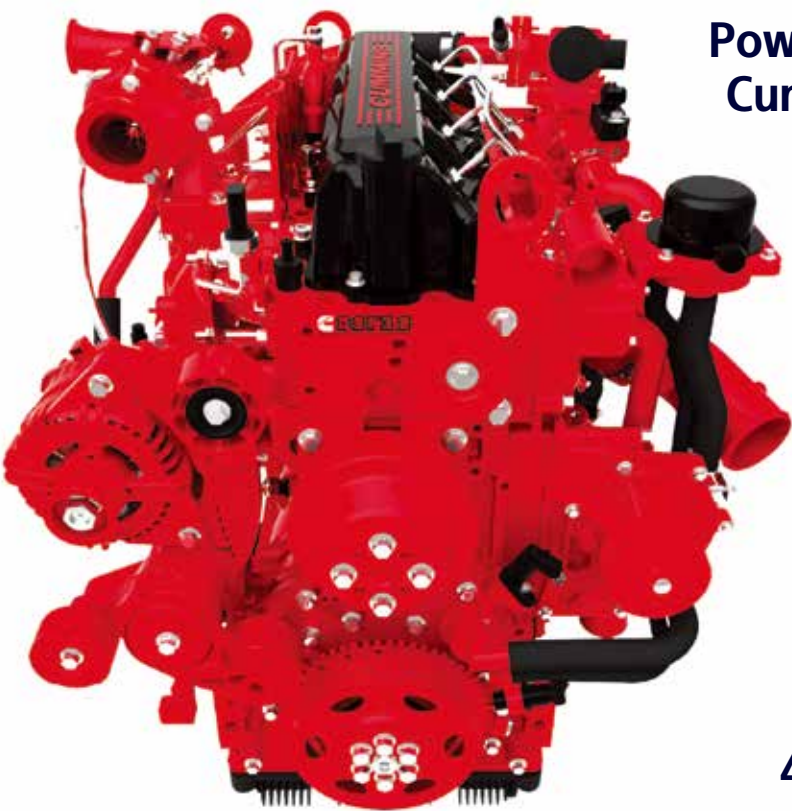
Power & Performance

# High Efficiency, Optimal Performance

Powerful engine and high technology systems provide you with enhanced performance and highest productivity.



Some of the photos may include optional equipment.



## Powerful and economical Cummins QSF3.8 engine!

The four cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA Tier 4 and EU stage IV emission regulation. Also, fuel consumption rate is improved than previous model.

- SCR (Selective Catalytic Reduction)
- EGR (Exhaust Gas Recirculation)
  - High torque at low speeds
  - Excellent transient behavior

**102PS/2,200rpm**  
**42.3kgf · m/1,600rpm**



### ZF Full-automatic transmission

Due to optimized engine and performance of the transmission, acceleration performance in low-speed sections has improved and noise heat generation has reduced. Also, it is possible to check the transmission status / failure etc. on the display window of the cluster.



### Highly durable drive axle

The strengthened drive axle separable from transmission ensures low vibration and easy maintenance. The wet disc type brake is applied for easy operation, smooth response and maintenance free.



### Fully hydraulic power steering

The hydraulic steering system guarantees smooth and flexible steering, preventing over-run and kick-back.

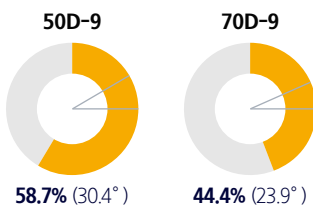


### Mast Tilting Angle

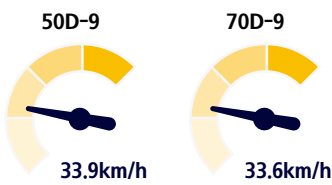
The mast tilting angle of 15 degrees forward and 10 degrees backward, the operator can perform loading and unloading safely and rapidly.

## Excellent gradeability and travel speed

The powerful engine provides greater acceleration, better gradability and faster travel speed on any tough terrains or slopes.



Max. Gradeability (Loaded)



Max. Travel Speed (Unloaded)

### Low engine RPM conversion

Depending on the need, the driver can convert the engine to a low RPM. The RPM will return to its initial settings value once engine is stopped and restarted.

### Engine mode control

Engine performance can be adjusted to suit the workload, simply by operating a switch mounted on the side panel.  
STD mode : Light load operations (fuel saving mode)  
PWR mode : Operations on slope requiring intense power



Easy & Comfort

# Best Convenience Optimized Ergonomics

The ergonomically designed cabin provides full support and comfort to the operator.



Some of the photos may include optional equipment.

## Spacious operating space

The ergonomically designed operating space was made for more space, a wider field of view and operator comfort. The smooth lever and pedal operation, adjustable tilting handle, suspension seat and deluxe cabin provide comfortable and efficient operation.



Some of the photos may include optional equipment.



### Grammer Seat

Easily adjustable suspension seat, based on a human engineering design, reduces operator fatigue and provides greater comfort.

- Operator's weight range (45~170kg)
- ELR(Emergency Locking Retractor) type seat belt as a standard
- Heat wire and head rest (OPT)



### New concept of centralized cluster

- Odometer
- Engine RPM
- Mast tilting status display
- Fuel gauge
- High beam indicator lamp
- Transmission oil temperature gauge
- Fuel heater operation lamp
- Air cleaner filter warning light
- Hour meter
- Diesel exhaust fluid shortage warning light
- T/M information display
- Parking brake operation display lamp
- Battery charging warning light
- Consumable replacement display lamp
- Engine warm-up display lamp
- Weight indicator (OPT)
- Real-time equipment tilt display
- Engine coolant temperature gauge
- Engine check warning light
- Seat belt warning lamp
- OPSS lamp
- Inching display lamp



### High-Output Air Conditioner & Heater

Full Automatic Temperature Control automatically adjusts cabin temperature to the set temperature and provides more comfortable working environment for the operator.



### Centralized Instrument Switch Panel

Various switches can be concentrated on the right side of the driver's seat to quickly optimize the vehicle condition to suit the working environment.



### Quick Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control.



### Accelerator and inching pedals

Based on human engineering the accelerator, brake and inching pedals are optimally positioned for the operator's convenience.



### Adjustable Steering Wheel

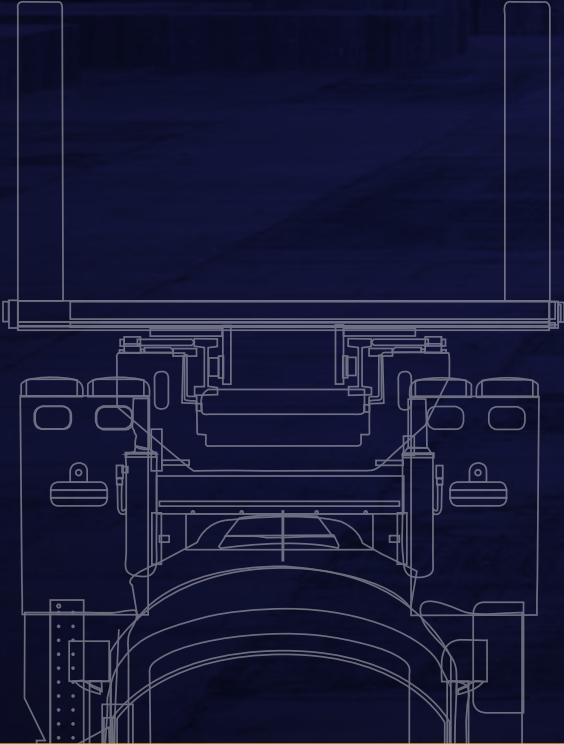
Steering wheel can be adjusted forward, backward, up and down for the most comfortable operator position.



Secure & Safety

# Advanced Safety

The safely designed driver's space makes your operating more comfortable.



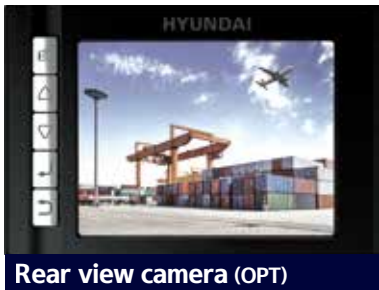
Some of the photos may include optional equipment.

## Wide visibility for Safe Operation

The optimized lift cylinder array design provides a clear, wide field of vision for the operator. The adoption of a panorama mirror and rear camera(OPT) improve the rear side view, further enhancing safety.



Some of the photos may include optional equipment.



Rear view camera (OPT)

The rear view camera and monitor connected with the reverse gear guarantee a safe working environment.



Large Footboard & Hand Grip

Wide openstep offers convenience and safety when entering and exiting vehicle.

### Speed limit setting

As the vehicle's speed limit can be set in consideration of the operator's environment, accidents resulting from violations of the speed limit can be prevented.

### Password setting function

The equipment can be managed safely and protected from theft by setting the password. (Up to 10 passwords can be set.)

### Load weight indicator (OPT)

When lifting a load, a change in hydraulic pressure of the lift line is converted to a measurement of weight displayed in real time, and a warning is given at the time of overload.

### Rear tire cover (STD) / Under cover (OPT)

The rear tire cover protect the the engine room by preventing foreign materials forme entering the tire. The Under cover protect the engine and components from dusts caused by ground.



Machine inclination warning system

The grade (left) and slope (right) sensors are built into the MCU and provide the grade and slope status information of the vehicle connected with the road surface condition in real time. Also, an alarm is emitted when the KS regulation is exceeded.

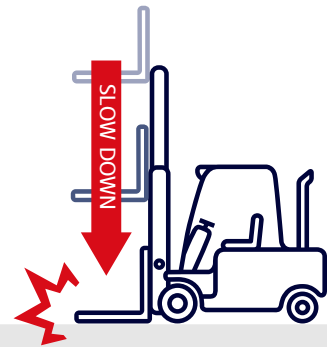
## Safety features

The adoption of a high-sensitivity sensor and advanced safety system eliminates the risk of safety accidents.



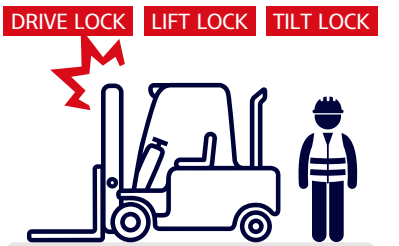
### Auto parking brake

If the operator leaves the seat while the gear lever is in neutral, the parking brake is automatically engaged to secure safety, and released upon the operator's return to the seat.



### Fork Safety Features

The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



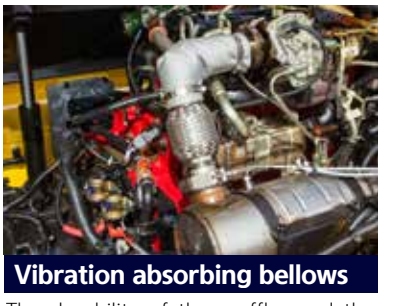
### Operator Presence Sensing System

All mast and drive movements stop functioning when the operator is not in the seat.



High brightness headlamp / LED taillight

Adoption of a high brightness headlamp and a semi-permanent LED taillight improves work efficiency and safety.



Vibration absorbing bellows

The durability of the muffler and the exhaust pipe is improved by installing the vibration absorbing bellows in a part of the exhaust pipe connecting the engine exhaust manifold and the muffler.



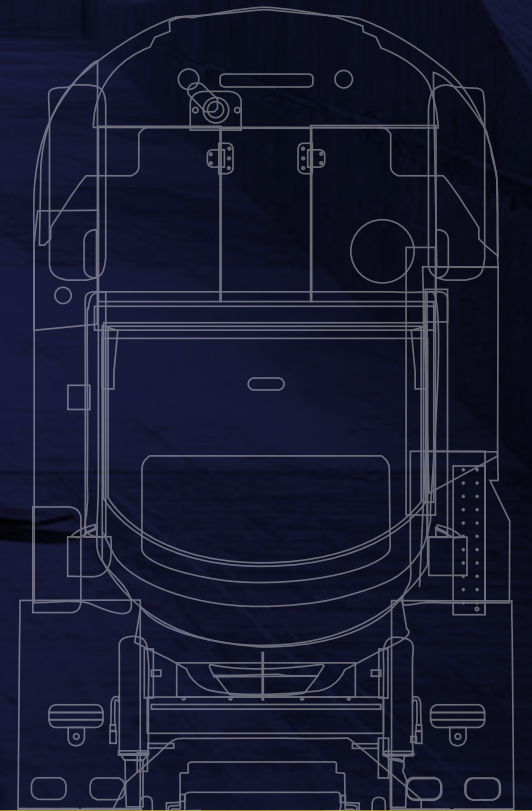
Maintenance & Convenience

# Fast and Easy Maintenance & Convenience Features

An ideal arrangement of components ensures easy access and convenience for maintenance.

EASY MAINTENANCE

BEST CONVENIENCE



Some of the photos may include optional equipment.

## Fully opening engine hood

An ideal arrangement of components ensures easy access and convenience for maintenance. Also, the adoption of a large-capacity double air cleaner filter ensures longer filter replacement cycle.



Some of the photos may include optional equipment.

## Various convenience devices

Various functions provide safety and convenience for operator.



### Engine fault diagnosis

Details of engine fault diagnosed by the engine control unit (ECU) can be checked on the cluster.



### Maintenance management

Replacement cycle of consumable items can be checked on the monitor, thus preventing performance deterioration of major functional parts due to failure to notice deterioration.



### Fuse box and relay box

The cabin is fitted with a newly developed fuel box and a relay box with waterproof and dustproof cover for ease of maintenance.



### Easy battery check

Battery is installed under the left-side step of the forklift to ensure convenient and easy checking.



### Cabin tilting switch

The cabin can be tilted up to 48 degrees with a single switch, making it easy to service the functions located under the driver's seat.



### Fuel inlet lockable with key (OPT)

A locking device is installed at the fuel inlet to prevent equipment malfunction due to fuel stolen and foreign materials.



### Easy-to-access washer tank

Level of washer fluid can be checked simply by opening the wing cover.



### Easy-to-access inlet of diesel exhaust fluid

Diesel exhaust fluid inlet can be easily accessed for convenient injection.



### Improved serviceability

Adoption of one-touch latch makes it easier to service the engine, components and electric parts.

New 9 Series Mast Specification

50/70D-9

| 50D-9 (STD : Hook-On Type Fork & Carriage) |          |                    |       |                |       |          |       |     |       |                       |       |                        |       |            |     |                                                    |       |                                                   |       |                       |        |
|--------------------------------------------|----------|--------------------|-------|----------------|-------|----------|-------|-----|-------|-----------------------|-------|------------------------|-------|------------|-----|----------------------------------------------------|-------|---------------------------------------------------|-------|-----------------------|--------|
| Mast Type                                  |          | Maximum Forkheight |       | Overall Height |       |          |       |     |       | Free Lift             |       |                        |       | Tilt Angle |     | Load capacity w/o side shift<br>At 24 in (600mm)LC |       | Load Capacity w/ Side Shift<br>At 24 in (600mm)LC |       | Truck Weight Unloaded |        |
|                                            |          |                    |       | Lowered        |       | Extended |       |     |       | Without Load Backrest |       | With Std Load Backrest |       | Fwd        | Bwd |                                                    |       |                                                   |       |                       |        |
|                                            |          | in                 | mm    |                |       | in       | mm    | in  | mm    |                       |       |                        |       |            |     | in                                                 | mm    | in                                                | mm    | deg                   | deg    |
| 2-Stage Limited free lift                  | V270     | 107                | 2,730 | 93             | 2,365 | 145      | 3,691 | 158 | 4,020 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 19,548                | 8,865  |
|                                            | ※V300    | 119                | 3,030 | 99             | 2,515 | 157      | 3,991 | 170 | 4,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 19,654                | 8,913  |
|                                            | V330     | 131                | 3,330 | 105            | 2,665 | 169      | 4,291 | 182 | 4,620 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 19,760                | 8,961  |
|                                            | V350     | 139                | 3,530 | 109            | 2,765 | 177      | 4,491 | 190 | 4,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 19,828                | 8,992  |
|                                            | V370     | 147                | 3,730 | 113            | 2,865 | 185      | 4,691 | 198 | 5,020 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 19,899                | 9,024  |
|                                            | V400     | 159                | 4,030 | 119            | 3,015 | 196      | 4,991 | 209 | 5,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 20,022                | 9,080  |
|                                            | V450     | 178                | 4,530 | 131            | 3,315 | 216      | 5,491 | 229 | 5,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 20,525                | 9,308  |
|                                            | V500     | 198                | 5,030 | 140            | 3,565 | 236      | 5,991 | 249 | 6,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 20,701                | 9,388  |
|                                            | V550     | 218                | 5,530 | 150            | 3,815 | 256      | 6,491 | 269 | 6,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 20,875                | 9,467  |
| 3-Stage full free lift                     | V600     | 237                | 6,030 | 160            | 4,065 | 275      | 6,991 | 288 | 7,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 21,050                | 9,546  |
|                                            | V700     | 277                | 7,030 | 180            | 4,565 | 315      | 7,991 | 328 | 8,320 | 6                     | 140   | 6                      | 140   | 15         | 6   | 11,000                                             | 5,000 | 10,915                                            | 4,950 | 21,394                | 9,702  |
|                                            | TF/TS450 | 180                | 4,560 | 101            | 2,565 | 218      | 5,545 | 229 | 5,805 | 62                    | 1,580 | 50                     | 1,275 | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 21,006                | 9,526  |
|                                            | TF/TS500 | 199                | 5,060 | 109            | 2,765 | 238      | 6,045 | 248 | 6,305 | 70                    | 1,780 | 58                     | 1,475 | 15         | 10  | 11,000                                             | 5,000 | 11,000                                            | 5,000 | 21,208                | 9,618  |
|                                            | TF/TS560 | 220                | 5,600 | 117            | 2,965 | 259      | 6,585 | 269 | 6,845 | 78                    | 1,980 | 66                     | 1,675 | 15         | 10  | 11,000                                             | 5,000 | 10,805                                            | 4,900 | 21,453                | 9,729  |
|                                            | TF/TS600 | 239                | 6,060 | 125            | 3,165 | 277      | 7,045 | 288 | 7,305 | 86                    | 2,180 | 74                     | 1,875 | 15         | 10  | 10,805                                             | 4,900 | 10,584                                            | 4,800 | 21,647                | 9,817  |
|                                            | TS730    | 289                | 7,330 | 144            | 3,665 | 327      | 8,315 | 338 | 8,575 | 106                   | 2,680 | 94                     | 2,375 | 15         | 10  | 9,658                                              | 4,380 | 9,261                                             | 4,200 | 22,159                | 10,049 |

※ : Standard

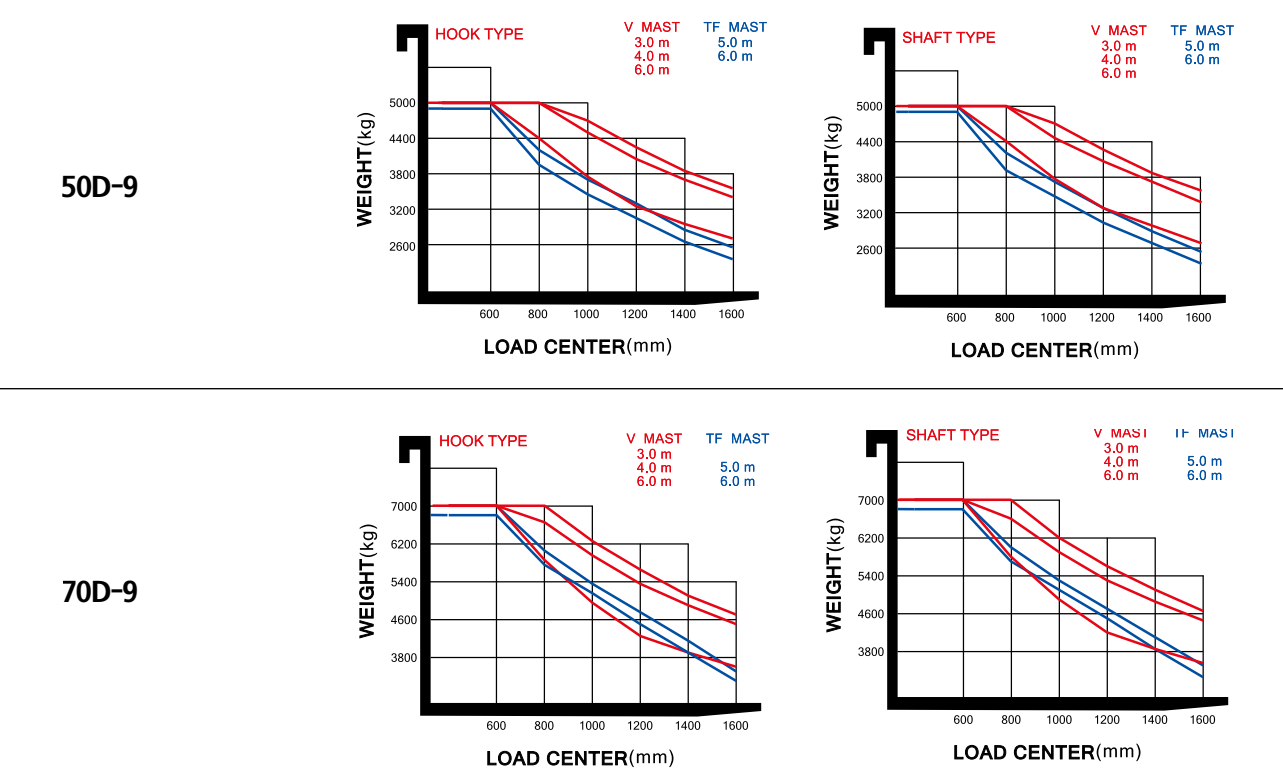
| 50D-9 (OPT : Shaft Type Fork & Carriage) |          |                    |       |                |       |                   |                     |     |       |                       |   |                        |       |            |     |                                                 |       |                                                |    |                       |       |
|------------------------------------------|----------|--------------------|-------|----------------|-------|-------------------|---------------------|-----|-------|-----------------------|---|------------------------|-------|------------|-----|-------------------------------------------------|-------|------------------------------------------------|----|-----------------------|-------|
| Mast Type                                |          | Maximum Forkheight |       | Overall Height |       |                   |                     |     |       | Free Lift             |   |                        |       | Tilt Angle |     | Load capacity w/o side shift At 24 in (600mm)LC |       | Load Capacity w/ Side Shift At 24 in (600mm)LC |    | Truck Weight Unloaded |       |
|                                          |          |                    |       | Lowered        |       | Extended          |                     |     |       | Without Load Backrest |   | With Std Load Backrest |       | Fwd        | Bwd |                                                 |       |                                                |    |                       |       |
|                                          |          |                    |       |                |       | W/o Load Backrest | W/Std Load Backrest | in  | mm    |                       |   |                        |       |            |     | in                                              | mm    | in                                             | mm | deg                   | deg   |
| 2-Stage Limited free lift                | V270     | 107                | 2,730 | 93             | 2,365 | -                 | -                   | 156 | 3,975 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,497                | 8,842 |
|                                          | ※V300    | 119                | 3,030 | 99             | 2,515 | -                 | -                   | 168 | 4,275 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,603                | 8,890 |
|                                          | V330     | 131                | 3,330 | 105            | 2,665 | -                 | -                   | 180 | 4,575 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,709                | 8,938 |
|                                          | V350     | 139                | 3,530 | 109            | 2,765 | -                 | -                   | 188 | 4,775 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,777                | 8,969 |
|                                          | V370     | 147                | 3,730 | 113            | 2,865 | -                 | -                   | 196 | 4,975 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,848                | 9,001 |
|                                          | V400     | 159                | 4,030 | 119            | 3,015 | -                 | -                   | 208 | 5,275 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 19,971                | 9,057 |
|                                          | V450     | 178                | 4,530 | 131            | 3,315 | -                 | -                   | 227 | 5,775 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 20,474                | 9,285 |
|                                          | V500     | 198                | 5,030 | 140            | 3,565 | -                 | -                   | 247 | 6,275 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 20,650                | 9,365 |
|                                          | V550     | 218                | 5,530 | 150            | 3,815 | -                 | -                   | 267 | 6,775 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 20,825                | 9,444 |
|                                          | V600     | 237                | 6,030 | 160            | 4,065 | -                 | -                   | 286 | 7,275 | -                     | - | 6                      | 140   | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 20,999                | 9,523 |
| 3-Stage full free lift                   | V700     | 277                | 7,030 | 180            | 4,565 | -                 | -                   | 328 | 8,320 | -                     | - | 6                      | 140   | 15         | 6   | 11,000                                          | 5,000 | -                                              | -  | 21,343                | 9,679 |
|                                          | TF/TS450 | 180                | 4,560 | 101            | 2,565 | -                 | -                   | 229 | 5,805 | -                     | - | 52                     | 1,320 | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 20,853                | 9,457 |
|                                          | TF/TS500 | 199                | 5,060 | 109            | 2,765 | -                 | -                   | 248 | 6,305 | -                     | - | 60                     | 1,520 | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 21,056                | 9,549 |
|                                          | TF/TS560 | 220                | 5,600 | 117            | 2,965 | -                 | -                   | 269 | 6,845 | -                     | - | 68                     | 1,720 | 15         | 10  | 11,000                                          | 5,000 | -                                              | -  | 21,301                | 9,660 |
|                                          | TF/TS600 | 239                | 6,060 | 125            | 3,165 | -                 | -                   | 288 | 7,305 | -                     | - | 76                     | 1,920 | 15         | 10  | 10,805                                          | 4,900 | -                                              | -  | 21,495                | 9,748 |
|                                          | TS730    | 289                | 7,330 | 144            | 3,665 | -                 | -                   | 338 | 8,575 | -                     | - | 97                     | 2,460 | 15         | 10  | 9,658                                           | 4,380 | -                                              | -  | 22,007                | 9,980 |

※ : Standard

New 9 Series Mast Specifications

| 70D-9 (STD : Hook-On Type Fork & Carriage) |          |                    |       |                |       |                   |       |                     |       |                       |       |                        |       |            |     |                                                    |       |                                                   |       |                       |        |
|--------------------------------------------|----------|--------------------|-------|----------------|-------|-------------------|-------|---------------------|-------|-----------------------|-------|------------------------|-------|------------|-----|----------------------------------------------------|-------|---------------------------------------------------|-------|-----------------------|--------|
| Mast Type                                  |          | Maximum Forkheight |       | Overall Height |       |                   |       |                     |       | Free Lift             |       |                        |       | Tilt Angle |     | Load capacity w/o side shift<br>At 24 in (600mm)LC |       | Load Capacity w/ Side Shift<br>At 24 in (600mm)LC |       | Truck Weight Unloaded |        |
|                                            |          |                    |       | Lowered        |       | Extended          |       |                     |       | Without Load Backrest |       | With Std Load Backrest |       | Fwd        | Bwd |                                                    |       |                                                   |       |                       |        |
|                                            |          |                    |       |                |       | W/o Load Backrest |       | W/Std Load Backrest |       |                       |       |                        |       |            |     |                                                    |       |                                                   |       |                       |        |
|                                            |          | in                 | mm    | in             | mm    | in                | mm    | in                  | mm    | in                    | mm    | in                     | mm    | deg        | deg | lb                                                 | kg    | lb                                                | kg    | lb                    | kg     |
| 2-Stage Limited free lift                  | V270     | 107                | 2,730 | 93             | 2,365 | 154               | 3,911 | 158                 | 4,020 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 22,798                | 10,339 |
|                                            | ※V300    | 119                | 3,030 | 99             | 2,515 | 166               | 4,211 | 170                 | 4,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 22,902                | 10,386 |
|                                            | V330     | 131                | 3,330 | 105            | 2,665 | 178               | 4,511 | 182                 | 4,620 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,008                | 10,434 |
|                                            | V350     | 139                | 3,530 | 109            | 2,765 | 185               | 4,711 | 190                 | 4,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,078                | 10,466 |
|                                            | V370     | 147                | 3,730 | 113            | 2,865 | 193               | 4,911 | 198                 | 5,020 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,149                | 10,498 |
|                                            | V400     | 159                | 4,030 | 119            | 3,015 | 205               | 5,211 | 209                 | 5,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,272                | 10,554 |
|                                            | V450     | 178                | 4,530 | 131            | 3,315 | 225               | 5,711 | 229                 | 5,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,773                | 10,781 |
|                                            | V500     | 198                | 5,030 | 140            | 3,565 | 245               | 6,211 | 249                 | 6,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 23,949                | 10,861 |
|                                            | V550     | 218                | 5,530 | 150            | 3,815 | 264               | 6,711 | 269                 | 6,820 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 24,123                | 10,940 |
| 3-Stage full free lift                     | V600     | 237                | 6,030 | 160            | 4,065 | 284               | 7,211 | 288                 | 7,320 | 6                     | 140   | 6                      | 140   | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 24,298                | 11,019 |
|                                            | V700     | 277                | 7,030 | 180            | 4,568 | 323               | 8,211 | 328                 | 8,320 | 6                     | 140   | 6                      | 140   | 15         | 6   | 15,500                                             | 7,000 | 15,500                                            | 6,900 | 24,644                | 11,176 |
|                                            | TF/TS450 | 180                | 4,560 | 101            | 2,565 | 227               | 5,765 | 229                 | 5,805 | 54                    | 1,360 | 50                     | 1,275 | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 24,368                | 11,051 |
|                                            | TF/TS500 | 199                | 5,060 | 109            | 2,765 | 247               | 6,265 | 248                 | 6,305 | 61                    | 1,560 | 58                     | 1,475 | 15         | 10  | 15,500                                             | 7,000 | 15,500                                            | 7,000 | 24,571                | 11,143 |
|                                            | TF/TS560 | 220                | 5,600 | 117            | 2,965 | 268               | 6,805 | 269                 | 6,845 | 69                    | 1,760 | 66                     | 1,675 | 15         | 10  | 15,500                                             | 7,000 | 15,215                                            | 6,900 | 24,816                | 11,254 |
|                                            | TF/TS600 | 239                | 6,060 | 125            | 3,165 | 286               | 7,265 | 288                 | 7,305 | 77                    | 1,960 | 74                     | 1,875 | 15         | 10  | 14,994                                             | 6,800 | 14,774                                            | 6,700 | 25,010                | 11,342 |
|                                            | TS730    | 289                | 7,330 | 144            | 3,665 | 336               | 8,535 | 338                 | 8,575 | 97                    | 2,460 | 94                     | 2,375 | 15         | 10  | 13,782                                             | 6,250 | 13,230                                            | 6,000 | 25,583                | 11,602 |

Load Capacity



Optional Items

- Fork (mm)  
50/70D-9 : 1200(STD), 1350, 1500, 1800, 2000, 2300, 2400

• Integral Sideshift, Integral Fork Positioner, Sideshift

• Tire : Solid(superelastic) / Non-marking

• M.C.V : 2-Spool, 3-Spool, 5-Spool

• Seat : Armrest, Heat, Backrest Ext, Buckle SW

• Weight Indicator
- Rear View Camera

• Cabin (Heater & Air Conditioner)

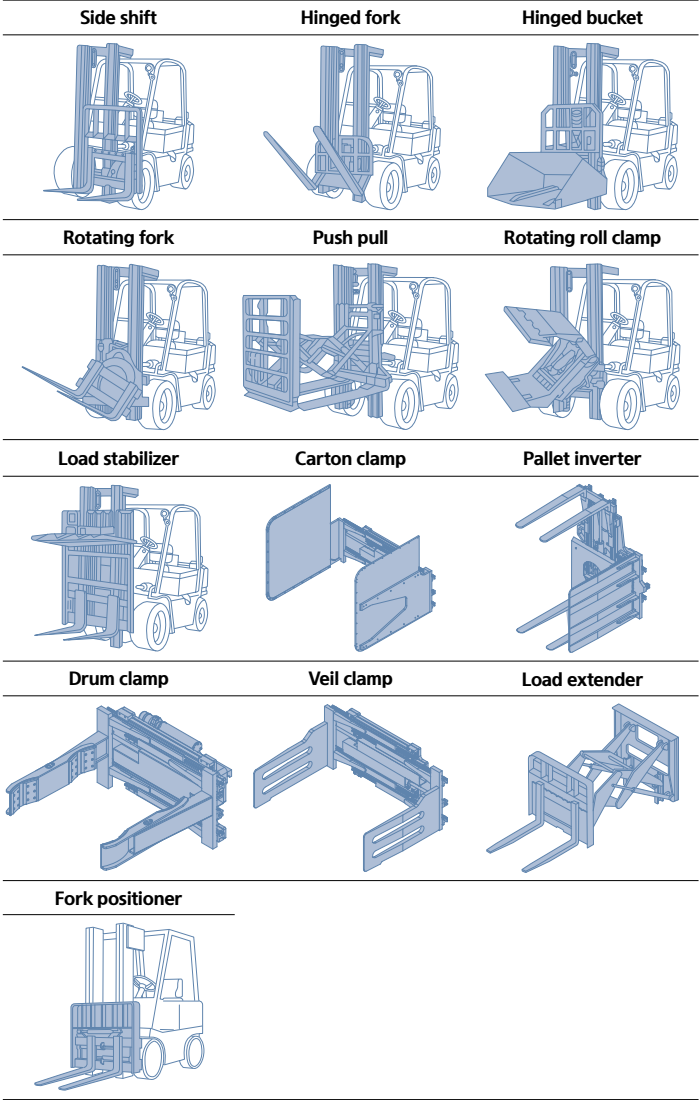
• Battery Disconnect Switch (Master Switch)

• Beacon Lamp (LED) (Amber, Red, Blue)

• Rear Work Lamp

• Top Wiper

Attachments



\* All specifications and photos in this catalog are subject to change for quality improvement.

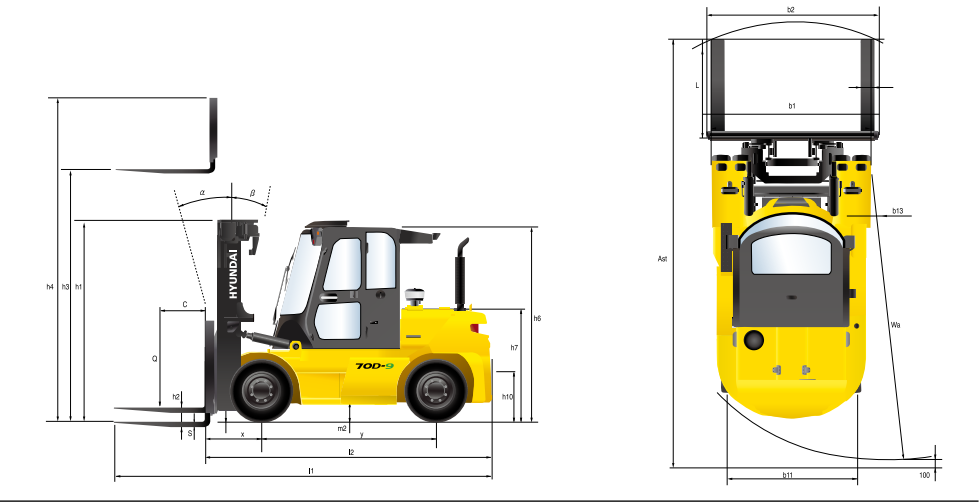
New 9 Series

Specification

| Distinguishing mark |                                                                   |                |                  |                  |
|---------------------|-------------------------------------------------------------------|----------------|------------------|------------------|
| 1.1                 | Manufacturer                                                      |                | Hyundai          | Hyundai          |
| 1.2                 | Manufacturer's model designation                                  |                | 50D-9            | 70D-9            |
| 1.3                 | Drive: electric (battery or mains),diesel,petrol,fuel gas>manual  |                | Diesel           | Diesel           |
| 1.4                 | Type of operation:hand,pedestrian,standing,seated,order-picker    |                | seated           | seated           |
| 1.5                 | Load capacity / Rated load                                        | kg             | 5,000            | 7,000            |
| 1.6                 | Load center distance                                              | c mm           | 600              | 600              |
| 1.8                 | Load distance, center of drive axle to fork                       | x mm           | 610              | 610              |
| 1.9                 | Wheelbase                                                         | y mm           | 2,300            | 2,300            |
| Weight              |                                                                   |                |                  |                  |
| 2.1                 | Service weight                                                    | kg             | 8,890            | 10,474           |
| 2.2                 | Axle loading, loaded front / rear                                 | kg             | 12,186 / 1,704   | 15,225 / 2,250   |
| 2.3                 | Axle loading, unloaded front / rear                               | kg             | 4,543 / 4,347    | 4,425 / 5,949    |
| Wheels, Chassis     |                                                                   |                |                  |                  |
| 3.1                 | Tires : Pneumatic(P), Solid(S), Non-marking(N)                    |                | P                | P                |
| 3.2                 | Tires size, front                                                 |                | 8.25-15-14PR     | 8.25-15-14PR     |
| 3.3                 | Tires size, rear                                                  |                | 8.25-15-14PR     | 8.25-15-14PR     |
| 3.4                 | Number of wheels front / rear (x=driven wheels)                   |                | 4 x / 2          | 4 x / 2          |
| 3.5                 | Track width, front                                                | mm             | 1,580            | 1,580            |
| 3.6                 | Track width, rear                                                 | mm             | 1,604            | 1,604            |
| Basic Dimensions    |                                                                   |                |                  |                  |
| 4.1                 | Mast / fork carriage tilt forward / backward ( $\alpha / \beta$ ) | deg            | 15 / 10          | 15 / 10          |
| 4.2                 | Lowered mast height                                               | h1 (mm)        | 2,515            | 2,515            |
| 4.3                 | Free lift                                                         | h2 (mm)        | 140              | 140              |
| 4.4                 | Lift height                                                       | h3 (mm)        | 3,030            | 3,030            |
| 4.5                 | Extended mast height                                              | h4 (mm)        | 4,320            | 4,320            |
| 4.7                 | Overhead guard height (cabin)                                     | h6 (mm)        | 2,588            | 2,588            |
| 4.8                 | Seat height / standing height rel. to SIP                         | h7 (mm)        | 1,551            | 1,551            |
| 4.12                | Coupling height                                                   | h10 (mm)       | 425              | 425              |
| 4.19                | Overall length                                                    | l1 (mm)        | 4,746            | 4,866            |
| 4.20                | Length to face of forks                                           | l2 (mm)        | 3,546            | 3,666            |
| 4.21                | Overall width                                                     | b1 (mm)        | 2,088            | 2,088            |
| 4.22                | Fork dimensions (hook type)                                       | s / e / l (mm) | 60 x 150 x 1,200 | 65 x 150 x 1,200 |
| 4.23                | Fork carriage ISO 2328, class / type A,B                          |                | Class IV         | Class IV         |
| 4.24                | Fork-carriage width                                               | b3 (mm)        | 2,068            | 2,068            |
| 4.31                | Ground clearance, loaded, under mast                              | m1 (mm)        | 195              | 195              |
| 4.32                | Ground clearance, centre of wheelbase                             | m2 (mm)        | 199              | 191              |
| 4.33                | Aisle width for pallets 1,000x1,200 crossways (LxW)               | Ast (mm)       | 5,129            | 5,251            |
| 4.34                | Aisle width for pallets 800x1,200 lengthways (WxL)                | Ast (mm)       | 5,329            | 5,451            |
| 4.35                | Turning radius                                                    | Wa (mm)        | 3,337            | 3,436            |
| 4.36                | Smallest pivot point distance                                     | b13 (mm)       | 1,224            | 1,224            |

| Performance data |                                                               |            |                  |                  |
|------------------|---------------------------------------------------------------|------------|------------------|------------------|
| 5.1              | Travel speed, unloaded                                        | km/h       | 33.9             | 33.6             |
| 5.2              | Lift speed, loaded/ unloaded                                  | mm/s       | 440 / 460        | 420 / 460        |
| 5.3              | Lowering speed, loaded/unloaded                               | mm/s       | 500 / 450        | 500 / 450        |
| 5.5              | Drawbar pull, loaded                                          | kgf        | 7,591            | 7,664            |
| 5.7              | Gradient performance, loaded                                  | %          | 58.7             | 44.4             |
| 5.9              | Acceleration time, loaded/ unloaded (10m)                     | sec        | -                | -                |
| 5.10             | Service brake                                                 |            | FOOT (Hydraulic) | FOOT (Hydraulic) |
| Engine           |                                                               |            |                  |                  |
| 6.1              | Engine manufacturer / type                                    |            | CUMMINS / QSF3.8 | CUMMINS / QSF3.8 |
| 6.2              | Engine power acc. to ISO 1585                                 | kW(ps)/rpm | 75(102) / 2,200  | 75(102) / 2,200  |
| 6.3              | Maximum Torque                                                | kgf.m/rpm  | 42.3 / 1,600     | 42.3 / 1,600     |
| 6.4              | No. of cylinder / Displacement                                | EA/cc      | 4 / 3,800        | 4 / 3,800        |
| 6.5              | Fuel consumption acc. To VDI cycle                            | ℓ /h       | 8.1              | 8.3              |
| Other Details    |                                                               |            |                  |                  |
| 8.1              | Type of drive control                                         |            | Full Auto        | Full Auto        |
| 8.2              | Operating pressure, system / attach                           | bar        | 185 / 150        | 185 / 150        |
| 8.3              | Oil volume (hydraulic)                                        | ℓ          | 132              | 132              |
| 8.4              | Sound pressure level (at driver's ear according to DIN 12053) | dB(A)      | 79.8             | 79.8             |
| 8.5              | Trailer coupling, type DIN                                    |            | Pin              | Pin              |

Dimension



\* All specifications in this catalog are subject to change according to the optional items.

